Apparatus for photo-electric measurements, for use in molecular diagnostics comprises a matrix sensor system with an electronic unit to process the received electromagnetic emissions through optics from the sample for real time processing

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Erfinder	HING PAUL (DE)
Anmelder:	SENSOVATION AG (DE)
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Zusammenfassung von **DE10214517**

Apparatus (1) for photo-electric measurements, comprising one or more photo-electric conversion components, and preferably matrix sensor(s) (4) e.g. charge coupled device (CCD), complementary metal-oxide semiconductor (CMOS), charge injection device (CID), and the like, is new. Apparatus (1) for photo-electric measurements, comprising one or more photo-electric conversion components, and preferably matrix sensor(s) (4) e.g. charge coupled device (CCD), complementary metal-oxide semiconductor (CMOS), charge injection device (CID), and the like, is new. An optical system (2,3) has a modular expansion on one or more axes to register electromagnetic emission from a line or surface at an object in any required size. The modular optical system divides the emission into a number of small segments for a single or multiple projection to the sensor(s). An electronic system (6) for the sensors defines the working mode and functions of the photo-electric converters, for adjustment with full programming in two dimensions in real time e.g. the pixel scanning frequency, pixel binning. The photo-electric converters can be controlled (10) independently of each other and/or are operated simultaneously and/or otherwise controlled.

Format Examples

US Patent
US6024053 or 6024053

US Design Patent
D0318249

US Plant Patents
PP8901

US Reissue
RE35312

US SIR
H1523

US Patent Applications
20020012233

World Patents
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Patent Abstract

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GER 2003-06-18 10214517 **VORRICHTUNG UND VERFAHREN FOOR FOTOELEKTRISCHE MESSUNG**

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APPLICANT- SENSOVATION AG DE
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EXEMPLARY CLAIMS- 1. A device consisting for photoelectric measurement, of: A) a particular or a multiplicity of photoelectric conversion elements, preferably Matrixsensor/en e.g. CCD, CMOS, CID etc., b) an optical system, which is modular in an axleor a multiplicity of axles expandable, in order to seize electromagnetic emission of a line or a surface in each desired size at an object, with each desired dissolution, whereby the optical system mentioned preferably separates the mentioned electromagnetic radiation modular into a multiplicity from smaller segments and the electromagnetic according to emission the smaller segments mentioned on the particular or a multiplicity of individual photoelectric conversion elements projects, and C) of sensor electronics, which stands in connection with dem/den photoelectric conversion elements mentioned, it permits to define and change in real time the operating mode and the functionality of the photoelectric conversion elements mentioned, whereby functions, e.g. the selection

sequence of pixels and the unlimited flexibility of the pixel summation ("pixel binning") in two dimensions and the photoelectric conversion elements mentioned are fully programmable independently and/or at the same timecan be operated and/or headed for. 2. The device according to requirement 1, by the fact characterized that the segments mentioned of electromagnetic emission originate from a multiplicity of overlapping regions on that line or that which can be measured range which can be measured. 3. The device according to requirement 1, by the fact characterized that the segments mentioned of electromagnetic radiation from one or a multiplicity of regions on that originate lineor surface which can be measured, whereby the regions are neighbouringor can between the regions mentioned a distance be given, which corresponds to the regions, which are not interesting for the measurement, whereby the device offers its functionality preferably only for the ranges which can

NO-DESCRIPTORS

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